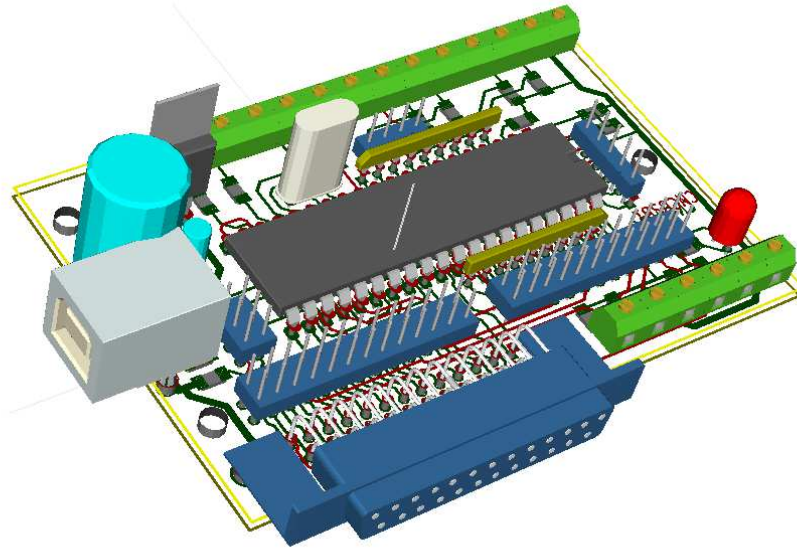


## CNC USB MOTION CONTROLER



CNC motion controller is a link between personal computer and drivers for stepper motors. It uses USB port which is available on all modern computers and laptops. This is a complete (software/hardware) solution and it does NOT require any additional software.

USB CNC controller is compatible with most step/dir drivers. It can be used as direct replacement for many parallel port break-out boards.

This controller can be used to drive 3 and 4 axes machines also Hot Wire cutting machines.

You can also use software just to visualize G-code or simulate toolpath.

### **Features and specifications of Software:**

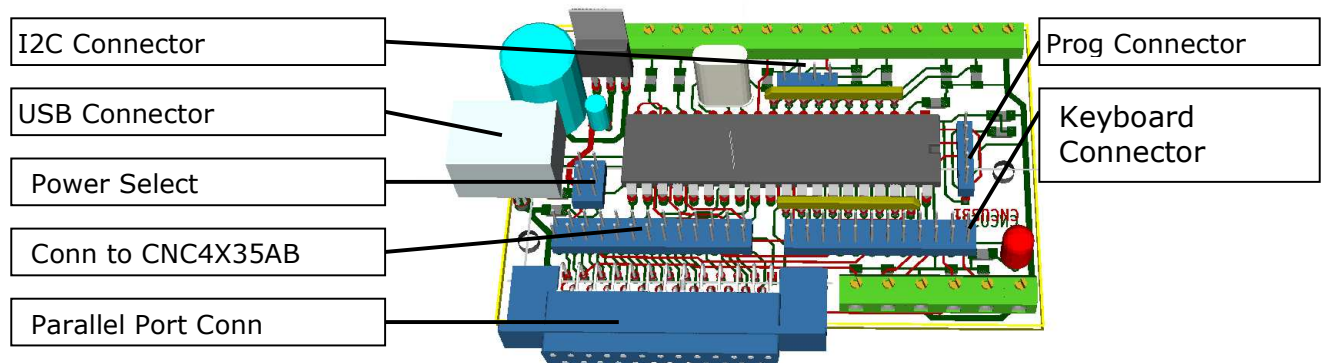
- USB (V2.x) from PC/Laptop running Windows XP, Vista or Windows 7 (32 or 64bit)
- start, stop, pause and resume execution of program on your machine
- standard RS274/NGC G-code (EMC2 compatible)
- advanced G-codes - G40, G41, G42 (Cutter Radius Compensation) supported
- advanced G-codes - G43, G49 (Tool Length Offsets) supported
- advanced G-codes - G54, G59.3 (Coordinate System Origins) supported
- tested with SolidCAM, MasterCAM, ArtCAM, Vectric, ... generated G-code

- [Profili](#) 4-axes and 3-axes G-code supported
- import toolpath from DXF files
- import toolpath from PLT/HPGL files
- import toolpath from image files
- import toolpath from NC-Drill (Excellon) files
- import toolpath from Gerber (RS-274X) files
- toolpath simulation
- automatic homing procedure
- advanced toolchange procedures
- export toolpath to G-code
- export toolpath to DXF
- SDK (software developers kit) is available
- works on MacOS X (Snow Leopard 10.6.3) with virtual machine emulating Windows XP SP3

### Features and specifications of 4 axes USB CNC controller:

- motor driver connector pin-out is compatible with [CNC4X35AB](#) or parallel port
- controller works with most motor drivers available on the market
- buffered IO for maximum performance
- advanced interpolation algorithms
- 25 kHz maximum step frequency
- 3 digital outputs (flood, mist, spindle)
- 12 us minimum pulse width
- manual jog input keys for all axes
- limit keys for all axes
- control external devices with I2C protocol

### Connectors :



### Signals Input/Output and Power Configuration

Power supplied by  
CNC4X35AP Board

Power supplied by  
External Supply

Power supplied by  
USB Port of Host

